

AMENDMENT TO THE CLAIMS

1. (currently amended) A radar level gauge for measuring the level of a product stored in a container, said level gauge including

a radar module for generating microwave signals on at least two different frequency bands,
an antenna unit for transmitting said microwave signals towards said surface and
for receiving microwave signals reflected by said surface, and
a measuring and controlling unit for determining the level based on an evaluation of the time lapsed between the received and the transmitted signals,
said radar module including:

- a microwave generating source for providing a first microwave signal of a first frequency band having a first center frequency,
- at least one frequency multiplier coupled between said microwave generating source and said antenna unit for providing a second microwave signal of a second frequency band having a second center frequency, wherein the ratio between the second and the first center frequency is at least 1.5, and
- switches operated by means of a control signal for switching the circuit to operate on said first frequency band or said second frequency band.

2. (previously presented) A circuit according to claim 1, wherein the circuit further includes:

- a number of first switches for the choice of an operating frequency (f_0 , mf_0) to be delivered to the antenna unit,
- a number of mixers for mixing the microwave signal received from the antenna unit with the chosen operating frequency for the forming of an IF-frequency,
- a number of second switches for directing the microwave operating frequency to a mixer corresponding to the operating frequency and